AUTUS-SILVER (Silver Nanoparticles) are available in the range of 1 and 100 nm in size. Silver nanoparticles have unique properties which help in molecular diagnostics, therapies, as well as in devices that are used in several medical procedures. We are producing wide range of silver NPs with best quality for the small research quantities as well as on a large scale for industrial purpose at competitive price.

TECHNICAL PARAMETERS OF AUTUS-SILVER

Name of Product	Colloidal SIlver
Claimed Diameter	20 nm
Storage Buffer	Suspended in H_2O, no preservative or Residual chemical.
Storage Instructions	Store at 2-8 °C – DO NOT FREEZE
Technical Data	
Analyzed Mean Diameter	19.5nm (DLS)
Coefficient of Variation	<8%
Optical Density @ 440nm	0.98
No. of Particles per ml	7.00×10^{10}
No. Moles Particle per ml	1.1624×10^{-13}
Molar Particle Concentration (No. moles per L)	1.1624×10^{-10}
Mass of gold per ml (g)	3.08×10^{-06}

Advance Application of AUTUS-SILVER

- Diagnostic Applications : Silver nanoparticles are used in biosensors and numerous assays where the silver nanoparticle materials can be used as biological tags for quantitative detection.
- Antibacterial Applications: Silver nanoparticles are incorporated in apparel, footwear, paints, wound dressings, appliances, cosmetics, and plastics for their antibacterial properties.
- Conductive Applications: Silver nanoparticles are used in conductive inks and integrated into composites to enhance thermal and electrical conductivity.
- Optical Applications: Silver nanoparticles are used to efficiently harvest light and for enhanced optical spectroscopies including metal-enhanced fluorescence (MEF) and surface-enhanced Raman scattering (SERS).